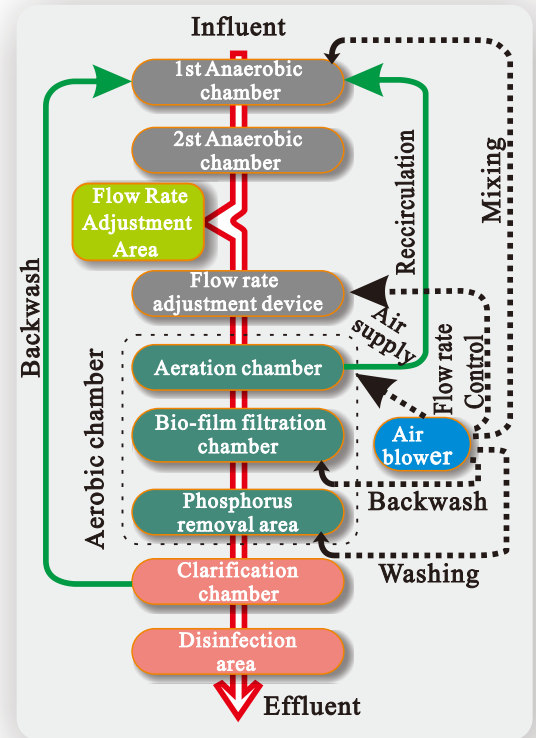
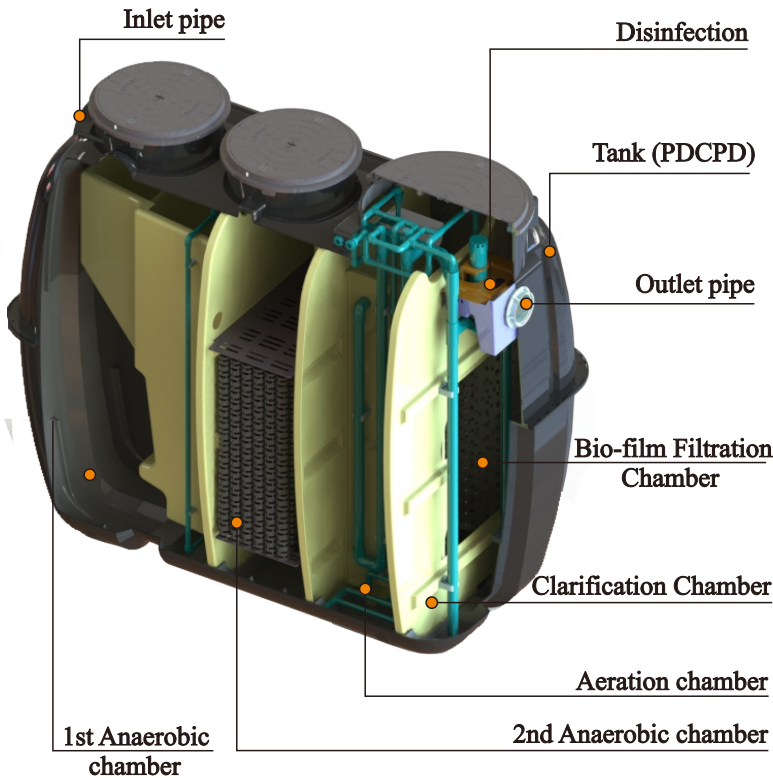


STP – 1P/14P

Wastewater Treatment Systems with Nutrient (N,P) Removal

Hydraulic loading: 5PE 1000L/Day
7PE 1400L/Day



Advanced Performance

The systems are designed for installations in environmentally sensitive area and the effluent can meet:

- BOD $\leq 20\text{mg/L}$
- SS $\leq 20\text{mg/L}$
- TN $\leq 20\text{mg/L}$
- TP $\leq 1\text{mg/L}$
- E.Coli ≤ 100 cfu/100ml

Automatic backwash

Automatic backwash controlled by timer ensures:

- stable and highly efficient treatment performance
- automatically controlling the thickness of bio-film on the filter media
- better nitrogen and SS removal
- the filter media not clogging

Nitrogen removal

In anaerobic chambers, nitrogen-removing microorganisms grow on the surface of filter media. The microorganisms convert nitrates in the re-circulated water coming from the aerobic chamber to nitrogen gas which returns to the atmosphere without causing any harm.

Phosphorus removal

Through electrolytic process of electrodes in the wastewater, phosphate is generated and precipitated, thus removing phosphorus.

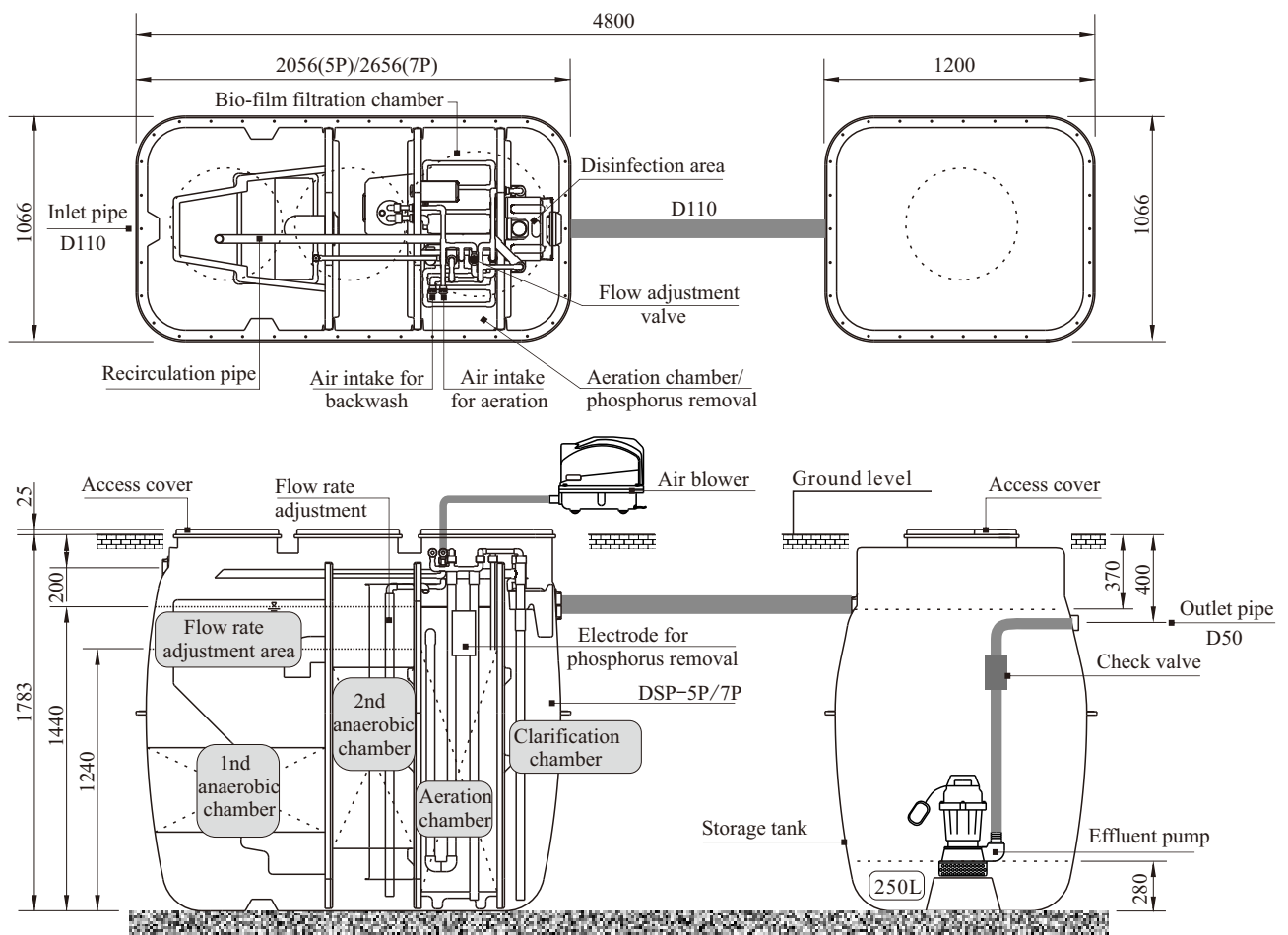
Flow rate adjustment

Flow rate adjustment device easily controls the volume of both effluent water and re-circulated water.

Details of the systems

Model	Effective volume m ³				Total volume m ³	Dimension mm			Inlet invert to base (mm)	Outlet invert to base (mm)	Weight (Kg)	Air blowers		Diameter of access cover mm
	1st anaerobic chamber	2nd anaerobic chamber	Aerobic chamber	Clarification chamber		length	width	height				Power W(50Hz)	Airflow L/min	
DSP-5P	1.045	0.494	0.561	0.285	2.720	2056	1066	1808	200	350	250	39	60	450/600
DSP-7P	1.501	0.770	0.561	0.285	3.780	2656			200	350	300	58	80	450/600
DSP-7P	1.01				1.550	1200			360	400	60			450

Installation diagram



Distributor:

Water Engineering Services FZE

Works- Q3-85, SAIF Zone Sharjah, UAE

Tel: +97165529840

Fax: +97165529841

[Http://www.waterengrs.com](http://www.waterengrs.com)